

SOKAC, B.; NIKLER, L.; SUSNJARA, A.; IVANOVIC, A.

Stratigraphic aspects of "Klimentakalk". Bul sc Youg 9 no.1/2;
8 F-Ap '64.

1. Institute of Geologic Research, Zagreb.

NIKLER, L.; SOKAC, D.; IVANOVIC, A.

Microfossil associations of the Jurassic and Cretaceous of
southern Velebit. Bul se Youg 9 no.3:67-68 Je '64.

1. Institute of Geologic Research, Zagreb.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230012-7

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230012-7"

SLAVKOVIC, Jovan; KONECNI, Josip; IVANOVIC, Dragan; VUJICIC, Miomir

Clinical particularities of pulmonary embolism. Srpski arh.
celok. lek. 84 no.10:1145-1154 Oct 56.

1. I Interna klinika Medic. fakulteta u Beogradu. Upravnik:
prof. dr. Branislav Stanojevic.

(PULMONARY EMBOLISM AND THROMBOSIS, case reports
(Ser))

PASTRAKULJIC, Nadezhda; IVANOVIC, Dragan

Mitral valvulotomy in multivalvular sequelae of rheumatic heart disease. Srpski arh. celok. lek. 93 no.2t167-177 F 65.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr. Branislav Stanojevic).

IVANOVIC, D.

Meeting of the Cattle Breeding Section of Government-Owned Agricultural Properties. p. 54.
POLJOPRIVREDNA, Beograd, Vol. ., no. 11, Nov. 1954.

SO: Monthly List of East European Accessions, (EAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

IVANOVIC, D.

IVANOVIC, D. Some experiences in improving milk production; results achieved at the Pravtvo-Jedinstvo State Agricultural Corporation in Brčej. p. 45.

Vol. 4, No. 5, May 1956.

PCI JOPRIJEDA
AGRICULTURE
Belograd, Yugoslavia

See: East European Accession, Vol. 6, No. 2, February 1957

IVANOVIC, D.

Rewarding workers in cattle breeding on agricultural farms.

p. 8 (Poljoprivreda. Vol. 4, no. 6, June 1956. Beograd, Yugoslavia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1956

IVANOVIC, N.

Is stockbreeding profitable? p. 22.

POLJOPRIVREDNA. (Drustvo poljoprivrednih inženjera i tehničara Srbije)

Beograd, Yugoslavia

Vol. 6, no. 6/7, June/July 1958

Monthly list of Eastern European Agricultural Index (MEL) in vol. II, No. 11

November 1959

Encl.

VRCELIJ, Stefanija; IVANOVIC, Dragan

Pulmonary edema in acute glomerulonephritis. Srpski arh. celok.
Tek. 92 no.2:133-141 F'c4.

I. Interna klinika A Medicinskog fakulteta Univerziteta u
Beogradu (Upravnik: prof. dr. Branislav Stanojevic).

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230012-7"

MAG 10, 1953, IN YUGOSLAVIA

"Optimal ratio of fuel and the reactor in a thermal power plant" (AES SR, Vol. 5, No. 1/2, 1953, Beograd, Yugoslavia)

SC: Monthly List of East European Accoridings, (Ljubljana, LSS, Vol. 4, No. 4, Apr 1955, Uncl.)

YUGOSLAVIA/Theoretical Physics - Quantum Mechanics.

B

Abs Jour : Ref Zhur Fizika, No 1, 1960, 188
Author : Ivanovic, Dragisa M.
Inst Title : Solution of the Problem of Penetration Through Potential Barriers with the Aid of a Certain New Quantity, Which Can be Called the de Broglie Impedance
Orig Pub : Publ. Electrotehn. fak. Univ. Beograd. Mat. i fiz., 1958, No 17, 6s., il.
Abstract : A new physical constant, $X = \mu_0 v$, which is called the de Broglie impedance, is introduced (v -- velocity of the particle, μ_0 -- magnetic permeability of the medium). This quantity is analogous to the electromagnetic impedance $Z_0 = \mu_0 / \epsilon_0$ in the case of propagation of electromagnetic waves (ϵ_0 -- dielectric constant), or the acoustic impedance $Z = \rho c$ in the case of propagation of sound waves (ρ -- density of the

Card 1/2

- 5 -

YUGOSLAVIA/Theoretical Physics - Quantum Mechanics.

B

Abs Jour : Ref Zhur Fizika, No 1, 1960, 188

medium, c -- velocity of sound). The solution of the problem of penetration through a potential barrier upon going from one medium to another reduces to the substitution of de Broglie impedance in known formulas for the reflection and transmission of light (or sound) instead of the electromagnetic (or acoustic) impedance. -- G.Ye. Pustovalov

Card 2/2

IVANOVIC, Dragoslav

Hand-shoulder syndrome in pericarditis. Srpski arh. celok.
lek. 91 no.10:975-979 0'63.

1. Interna klinika A Medicinskog fakulteta Univerziteta u
Beogradu. Upravnik: prof. dr. Branislav Stanojevic.

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CSISZAR, K.; IVANOVICS, G.

Transduction in *Bacillus subtilis*. Acta mikrobiol. acad. sci.
Hung. 12 no.1:73-89 '65.

1. Institute of Microbiology (Director: G. Ivanovics), University
Medical School, Szeged.

VASIC, K.; IVANOVIC, Jelisaveta; MAKSIMOVIC, M.; STANIC, Vlasta; DORDEVIC, M.

Morphogenetic differentiations, and oxygen consumption during the
embryonal development of Lymantria dispar L. Arh biol nauka 13 no.3/4:
181-197 '61.

1. Bioloski institut, Beograd.

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8 no.4:204-209 1955.

1. Ambulanta za alergijske bolesti III Interne Klinike Medicinskog
fakulteta Beograd. Upravnik: prof. dr. A. Dadosavljevic.
Dermatovenerolska klinika Medicinskog fakulteta Beograd. Upravnik:
prof. dr. S. Ilic.

(ALLERGY,
relation to age. (Ser))

(AGE
relation to allergy (Ser))

IVANOVIC, Kosara.

Treatment of the most common skin diseases in children. Med. glasn.
9 no.11-22:441-443 Nov-Dec 55

1. Dermatovenerolska klinika Medicinskog fakulteta u Beogradu
Upravnik; Sima Ilic.
(SKIN, dis.
common in child., ther. (Ser))

IVANOVIC, K.

A two-tube receiver which can be transformed into a three-tube one. p. 297
(Radiozavod, Vol. 19, no. 11, Nov. 1956. Beograd, Yugoslavia)

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Do-it-yourself Phillips miniature transformers, p. 325, Table of contents
for 1947-56.
(Radioamater, Vol. 10, no. 12, Dec. 1956. Beograd, Yugoslavia)

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A two-tube receiver converted into a three-tube receiver. II. The three-tube super receiver. p. 43.
(Radioamater, Vol. 11, no. 2, Feb. 1957. Beograd, Yugoslavia)

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July 1957. Uncl.

IVANOVIC, K.

Factory spools in amateur practice. p. 16.
(Radiomater, Vol. 11, no. 2, Feb. 1957. Beograd, Yugoslavia)

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July 1957. Uvol.

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Philips' intermediate-frequency transformers of the 5730 type. p. 138.

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Beograd, Yugoslavia. Vol. 12, no. 5, May 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

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"Plant Hormones and Their Practical Application in Agriculture", p. 30
Vol. 6, no. 1, 1953. (NAUKA I PRIMERA) Beograd, Yugoslavia.

SO: Monthly List of East European Accessions, L.C.Vol. 3, No. 4, April 1954

IVANOVIC, M

"Factors in Plant Blooming", p. 264 (NAUKA I PRIRODA) (Vol. 6, No. 6, 1953,
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"Solving the problem of heavy motor trolleys and the motor traction of dump cars." (p. 101)
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"Repair and maintenance of Yugoslav railroads today and in the future."

p. 41 (Zeleznice) Vol. 14, no. 1, Jan. 1958
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4,
April 1958

BOZOVIC, B.; SAVICEVIC, M.; DEVECESKI, M.; JOCIC, V.; KOHUNOVIC, N.;
LOPICIC, Lj.; IVANOVIC, M.

Allergic diseases in two textile industry enterprises. Acta med.
Iugosl. 13 no.3:319-324 '59.
(ALLERGY etiol.)
(OCCUPATIONAL DISEASES etiol.)

PUTNIK, Dj., Doc., dr.; MARTINIS, U., dr.; IVANOVIC, M., dr.; MILOVANCEVIC, R., dr.

Results of long-term treatment of chronic pulmonary tuberculosis with antibacterial drugs; analysis of early results of continuous treatment for 4 to 12 or more months in 141 cases. Tuberkuloza, Beogr. 8 no.2:110-115 Mar-Apr 56.

1. Institut za tuberkulozu NRS (direktor: v. prof. dr. M. Grujic).
(TUBERCULOSIS, PULMONARY, ther.
chemother., early results of long-term ther. (Ser))

IVANOVIC, Mihajlo, Dr.

Paranasal sinusitis in children. Med.glasn. 9 no.2-3:74-76 Feb-Mar '55.

1. Otorinolaringolska klinika Medicinskog fakulteta u Beogradu
(upravnik prof. dr S. Podvinac)
(SINUSITIS, in infant and child,
paranasal)

IVANOVIC, Mihajlo

Labyrinthine vertigo. Srpski arh. celok. lek. 83 no.10:1090-
1099 Oct 55.

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Upravnik: prof. dr. Srećko Podvinac.
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labyrinthine. (Ser))

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Tasks and role of the Union of Engineers and Technicians
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problems. Tehnika Jug 17 no.11:2027-2032 N '62.

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"Compositions of the water of the Adriatic Sea." p. 119. (Morsko Ribarstvo. Vol. 5, no. 7/8, 1953. Zagreb)

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IVANOVIC, Niko, dr.

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499 O '59.

1. Interni odjel OPce bolnice u Sibeniku, sef: dr. N. Ivanovic.
(URINARY CALCULI physiol.)
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BENAKI, M.; TEPERIN, R.; VYAS, J., et al. *J. Phys. Chem.*, 1963,

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• Laboratory of Organic Chemistry and Biochemistry, Central Institute, University of Jena, Germany.

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Economic importance of mineral fertilizers. Kem ind 12 no.5:397-401
My '63.

1. Direktor sektora Poslov. udruzenja "Agrohemija", Beograd.

Wetland, the, possible groundwater sludge, a planned change
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21 no. 19647-650 - 1964

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Applied method of foreseeing the behavior of solution gas drive reservoir in Boka, Vojvodina. Nafta Jug 12 no.7/8:201-207 Jl-Ag '61.

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(Yugoslavia—Gas industry)

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Share of the Banat oil fields in the production of petroleum.
Nafta Jug 15 no.7/8:213-219 Jl-Ag '64.

1. Naftagas Enterprise, Novi Sad.

OVODOV, Yu. (УВОД); IVANKOVICH, A. (УВАНКОВИЧ); GORBUNOV, V. (УВОРУНОВ)

Ultrashort radio waves. Radio no. 7:17 '64. (MIRA 18:1)

I. Predsedatel' sektsii korotkikh voln i ul'trakorotkikh voln,
Armvir (for Ovodov).

TRUBIN, B.G., prof.; LUR'YE, A.B.; GRIGOR'YEV, S.M.; IVANOVICH, E.M.; MEL'NIKOV, S.V.; ANTIPIN, V.G., kand. tekhn. nauk, retsenzent; VOLKOV, B.G., kand. tekhn. nauk, retsenzent; MULLAYANOV, R.G., kand. tekhn.nauk, retsenzent; OVSYUKOV, V.N., kand. tekhn. nauk, retsenzent; BELYAYEV, A.S., st. nauchnyy sotr., retsenzent; KOZLOVSKIY, Ye.V., inzh., retsenzent; TRAK, E.E., inzh., retsenzent; SIMONOVSKIY, N.Z., red.izd-va; SPERANSKAYA, O.V., tekhn. red.

[Agricultural machines; theory, design, and calculations]
Sel'skokhoziaistvennye mashiny; teoriia, konstruktsiia i raschet.
Pod red. B.G.Turbina. Moskva, Mashgiz, 1963. 575 p.

(MIRA 16:5)

1. Nauchno-issledovatel'skiy institut mekhanizatsii i elektrofiksatsii sel'skogo khozyaystva Severo-Zapada (for Antipin, Volkov, Mullayanov, Ovsyukov, Belyayev, Kozlovskiy, Trak).

(Agricultural machinery--Design and construction)

IVANOVICH, I.

Waste-water problem in Sofia, Tr. from the Bulgarian. p. 40. (Voda, Vol. 36, No. 2, Feb 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) 1C, Vol. 6, No. 8, Aug 1957. Uncl.

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A purifying plant for the sewage water of the Kremikovtsi Metallurgic Works. Khidrotekh i melior 7 no.4:97-99 '62.

IVANOVICH, Iv., inzh.

Station for the purification of waste water in the Sofia region.
Tekh delo 13 no.42914 2 Je '62.

IVANOVICH, Ivan, inzh.

Some peculiarities of water economy at the Kremikovt^{sh} Metallurgic
Combine. Khidrotekh i melior 7 no.9:283-285 '62.

IVANOVICH, Ivan, inzh.

Legislation on water purity control in the member countries
of the Council for Mutual Economic Assistance. Khidrotekh
i melior 9 no.6:183 '64.

IVANOVICH, K. A., ed.

The education of students in agricultural colleges; a report. Moskva, 1947. 114 p.
(S2-15947)

S535.R8M59

1. Agricultural education - Russia. 2. Ivanovich, K. A., ed.

i. Anovits, N. A.

Moscow. Agricultural colleges in the USSR Moscow, 1946. 157 p. (4-29431)

355.R9M6

1. Agricultural education - Russia. 2. Agricultural colleges - Russia. I. IAkushkin,
Ivan Viacheslavovich, 1885- ed. II. Ivanovich, K. A.

IVANOVICH, K. A.

Ivanovich, K. A. - "For consolidating the union between the agricultural colleges and production", (Experiences of the Moscow Agricultural Academy imeni Timiryazev), Vestnik vyssh. shkoly, 1949, No. 4, p. 40-42.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

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Agriculture & Plant & Animal Industry

Principles of teaching and education in the Agricultural schools. Moskva, Gos. izd-vo selkhoz lit-ry, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 195~~6~~²/Uncl.

[A.]

1. IVANOVICH, K., PROF.
2. USSR (600).
4. Agriculture - Study and Teaching
7. Training masters of Soviet agriculture. Kolkh, proizv. 12 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

IVANOVICH, K.A.

Osnovy obucheniia i vospitaniia v sel'skokhoziaistvennoi shkole (Bases of instructions and training in agricultural schools). 2-e izd., perer. Moskva, Selkhozgiz, 1953. 302 p.

SO: Monthly List of Russian Accessions, Vol 7, No9, Dec 1954

IVANOVICH, K. A.

6740. Ivanovich, K. A. Dratkiye osnovy metodiki obucheniya
kilkhoznikov na trekhletnikh agrozootekhnicheskikh kursakh. M.,
1954. 24 s. 22 sm. (Glav. upr. s.-kh. propagandy i nauki M.-va
sel'skogo khozyaystva SSSR). 100.000 ekz. Bespl. --(55-2788) p
63 (077)

SO: Knizhnaya Letopis' No. 6, 1955

USSR/General Division. History. Classics. Personalities. A-2

Abs Jour : Ref Zhur-Biologiya, No 3, 1958, 9261
Author : K. A. Ivanovich
Inst : Timiryazev Agricultural Academy
Title : Timiryazev Academy is 90 Years old
Orig Pub : Izv. Timiryazevskoy s-kh, akad., 1955, No 3,
 3-24
Abstract : A review of the historical development and
 contemporary state of the Timiryazev Agri-
 cultural Academy (1865-1955).

Card 1/1

IVANOVICH, K.A., professor, redaktor; KANTOROVICH, A.V., redaktor;
VANYUSHENKO, V., tekhnicheskiy redaktor

[Problems in practical laboratory exercises and independent work of
students; a collection of papers] Voprosy metodiki laboratorno-
prakticheskikh zaniatii i samostoiatel'noi raboty studentov; sbornik
dokladov. Pod red. K.A.Ivanovicha. Moskva, 1956. 159 p.
(MIRA 10:2)

1. Moscow. Moskovskaya sel'skokhozyaystvennaya akademiya imeni
K.A.Timiryazeva.
(Agriculture--Study and teaching)

Ivanovich, K.A.

IVANOVICH, K.A., prof.

Training teachers for agricultural schools at the Timiriazev Academy
[with summary in English]. Izv. TSKhA no. 4:47-50 '57. (MIRA 11:1)

1. Prorektor po uchebnoy rabote Sel'skokhozyaystvennoy akademii
imeni K.A. Timiryazeva.
(Agriculture--Study and teaching)

LUDOVICH, I.

3-9-27/31

AUTHOR: Ivanovich, K.A., Professor, President of the Preparatory Commission for the International Seminar for Students of Agricultural Vuzes.

TITLE: A Conversation on Two Important Agricultural Problems (Razgovor o dvukh vazhnykh problemakh sel'skogo khozyaystva)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 9, pp 83-86 (USSR)

ABSTRACT: The author gives a description of the international seminar of agriculture students during the VIth World Youth Festival in Moscow. About 170 persons took part representing 44 countries. Professor Karoi Kolbai (President of the Hungarian University of Agriculture), Professor Kurt Oberndorf from the German Democratic Republic, Soviet scientists: Academician N.V. Tsitsin, Professor G.M. Loza and others, were present.

Two problems were dealt with: The increase of grain quantity and quality, and higher agricultural training.

Academician N.V. Tsitsin gave an account of the grain economy in the USSR. A discourse about his experience in the field of hybridization was heard with great interest. Syu-Shu-syun, a delegate from China lectured on agriculture in his country. Other reports were made by: Ye, Sizenko, of the Timiryazev Academy, Diuori, from North Africa, and the Canadian Frank Sudo.

K.O. Ivanovich spoke about agricultural education and practical training. He answered many questions submitted by the audience.

Card 1/2

A Conversation on Two Important Agricultural Problems

3-9-27/31

V. Pungan, a young Rumanian scientist, gave information on the agricultural training in Rumania. There are 7 agricultural vuzes with 17 faculties. The training period comprises 5 - 5½ years. One year of practice is compulsory before entering the vuz. About 80% of the students receive scholarship.

Horatio Fernandez (Goratsio Fernandes) of Argentine and Abd-al-Azim Makhemed from the Sudan informed the audience of training methods in their countries. Representatives from Tunis and Poland took part in the debate. The seminar members spent one day at the Moskva Agricultural Academy imeni K.A. Timiryazev.

AVAILABLE: Library of Congress

Card 2/2

IVANOVICH, KORNELIY AGAFONOVICH

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Sel'skokhozyaystvennoye obrazovaniye v SSSR Agricultural
education in the USSR Moskva, Gos-Izd-vo "Sovetskaya
Nauka", 1958.

238 p. illus., tables.
Bibliography: p. 235-238

IVANOVICH, K.A.

3-58-4-10/34

AUTHOR:

Ivanovich, K.A., Professor

TITLE:

Ways of Improving the Teaching Process (Puti uchvershenstva
vaniya uchebnogo protessa) Practical Training Under Actual
Conditions (Proizvodstvennoye obucheniye - v real'nyye uslo-
viya)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, # 4, pp 38-41 (USSR)

ABSTRACT:

The Moscow Agricultural Academy imeni Timiryazev's training and experimental farms and its scientific research institutions serve as a basis for student practical training. The experimental stations for husbandry, vegetable growing, fruit cultivation, forestry, zootechnics, etc. are situated on the academy game reserve of about 700 hectares. Six training and experimental farms, located in 4 oblasts of the RSFSR, are attached to individual faculties for training and scientific research. They comprise a total of 14,000 hectares. Experimental fields and water basins have been established.

For the subject "Agronomy", 126 weeks have been assigned for theoretical work and 64 weeks for practical training. The practical training is then described. Some deficiencies in this practical training, such as poor organization, are

Card 1/2

3-58-4-10/34

Ways of Improving the Teaching Process. Practical Training Under Actual Conditions

pointed out.

ASSOCIATION: Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.M. Timiryazeva (The Moscow Agricultural Academy imeni K.M. Timiryazev)

AVAILABLE: Library of Congress

Card 2/2

Ivanovich, K.A.
ZINOV'YEV, S.I., kand.ped.nauk

New books on the history of higher education ("Higher education in the U.S.S.R." by A.S. Butiagin, IU.A. Saltanov; "Agricultural education in the U.S.S.R." by K.A. Ivanovich; "Higher education and training of science personnel in the U.S.S.R." by K.T. Galkin. Reviewed by S.I. Zinov'ev). Vest.vys.shkoly 16 no.11: 86-92 N '58.

(Education, Higher)

(Butiagin, A.S.) (Saltanov, IU.A.) (Ivanovich, K.A.)
(Galkin, K.T.)

IVANOVICH, K.A., prof.

Ways of improving the training of agricultural specialists under
new conditions. Izv.TSKhA no.2:7-14 '59. (MIREA 12:8)

I. Prorektor Timiryazevskoy sel'skokhozyaystvennoy akademii po
uchebnoy rabote.
(Agriculture--Study and teaching)

DURASEVICH, Yuriy Yevgen'yrvich; IVANOVICH, K.A., red.; AVERICHEV,
Yu.P., red.; KREYS, I.G., tekhn. red.

[Training of rural electricians] Podgotovka sel'skogo elektro-
montera; iz opyta shkoly pamyati V.I.Lenina v Gorkakh Lenin-
skikh. Pod red. K.A.Ivanovicha. Moskva, Uchpedgiz, 1962.
135 p. (MIRA 16:4)

1. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR
(for Ivanovich).

(Electricians--Education and training)
(Rural electrification--Handbooks, manuals, etc.)

IVANOVICH, Leonid Stepanovich; SAYENKO, Konstantin Ivanovich;
MEDVEDEVA, L.V., red.; SHADRINA, N.D., tekhn. red.

[Stories on activists in industrial safety] Rasskazy ob akti-
vistakh okhrany truda. Moskva, Izd-vo VTsSPS, Profizdat, 1961.
110 p.

(MIRA 15:1)

(Industrial hygiene)

IVANOVICH, N.

Class II transmitter. Radio no.11:20-23 N '62. (MIRA 15:12)
(Radio, Shortwave—Transmitters and transmission)

IVANOVICH, O.

Creation of the material and technical basis of communism and
U.S.S.R. trade with socialist countries. Vnesh. torg. 42 no.2:
3-13 '62. (MIRA 15:2)

(Russia--Commerce--Communist countries)
(Communist countries--Commerce--Russia)

IVANOVICH, V.A.

Work organization and technology of geographic atlas binding.
Geod. i kart. no.3:65-68 Mr '57. (MLRA 10:8)
(Atlases) (Bookbinding)

JUVARA, I., Conf.; MUNTEANU, R. Dr.; IVANOVICI, F. Dr.

The role of re-establishment of water-electrolyte balance in physiopathology
and clinical management of pyloric stenosis. Med. int., Bucur. 9 no.7:
1034-1045 July 57.

(BODY FLUID BALANCE

 maintenance in pyloric stenosis)

(PYLORUS, stenosis

 maintenance of water-electrolyte balance)

G. IVANOVICI AND L. SCHAPIRA'S Elemente de metrologie

~~SCIENCE~~

Periodicals: METROLOGIA APPLICATA. Vol. 5, no. 5, Sept./Oct. 1958

G. IVANOVICI AND L. SCHAPIRA'S Elemente de metrologie (Elements of Metrology)
A book review. p. 230.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

IVANOVICI, G., ing.

Metrological terminology proposed by the International Conference
of Measurement Technique, Budapest, November 1958. Metrologia
apl 6 no.2:61-64 Ap-Je '59.

(1)

RUMANIA

BRAUNER, R., Prof; IVANOVICI, G., Dr.

The Medical Clinic at Brincovenesc Hospital (Clinica medicala a Spitalului Brincovenesc), Bucharest. Originally presented 23 Feb 63 at a meeting of the Clinical Laboratory Section of the Bucharest Branch of the U.S.S.R. (For all).

Bucharest, Vitata Medicala, No 12, 15 Jun 63, pp 819-826

"The Diagnosis of Atypical Cell Patterns In Pathologic Fluids."

(2)

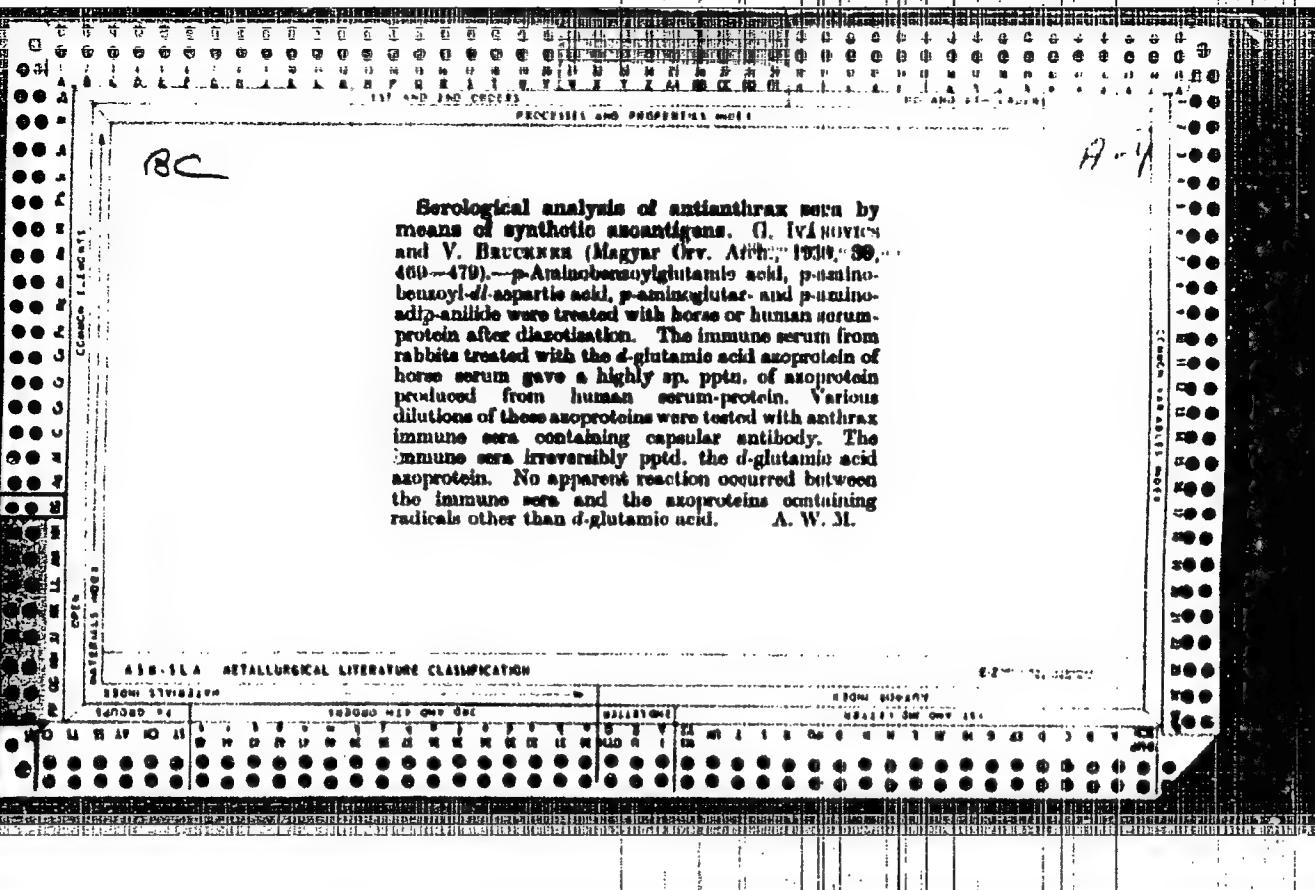
IVANOVICI, Gh., ing.

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Restoration of metabolic balance through a jejunal tube. Med. int.,
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(BODY FLUID BALANCE
maintenance by admin. of fluids through jejunal tube, comparison
with parenteral method.



*CA**NA*

The occurrence of the polypeptide of *d*- α -glutamic acid in nature. Chemical investigation of the substance of the capsules of the bacillus of anthrax. György Bruckner, Jr., György Ivánovics and Margit Kivacs Tiskolás-Mágyar. "Kémiai Folyóirat" 45, 131-141 (1969). Acid hydrolysis of the capsules of anthrax bacilli yields *d*- α -glutamic acid in significant amounts. The immune specific substance of these capsules could be sepd. and purified.

The same substance can be sepd. much more easily from other spore-forming bacilli of the mesenteric type. As the heavy-metal salts (e. g., the Cu salt) of this substance are insol. in water, pptn. and electrodialysis lead to a rather

pure prepn. This substance is amorphous like gelatin, very hygroscopic, sol. in water to a strongly acid soln., has optical activity and contains about 10% total and 0.2 0.5% amino N. The acid hydrolysis of this substance leads to *d*(+)-glutamic acid-HCl. Probably the substance is a high-mol. compd. consisting of *d*(+)-glutamine and groups and having a polypeptide-like structure. For the prepn. by means of mesenteric bacilli *L*-asparagine and *L*-glutamic acid seem to be the most suitable nitrogen nutrients. As in the proteins of cancerous tumors only glutamine acid is racemized in the highest degree, the occurrence of this acid in other natural compds. has an importance from the points of view of both biochemistry and cancer investigations.

S. S. de Finny

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

TECHNICAL DIVISION

160089 74

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EASY SEARCH

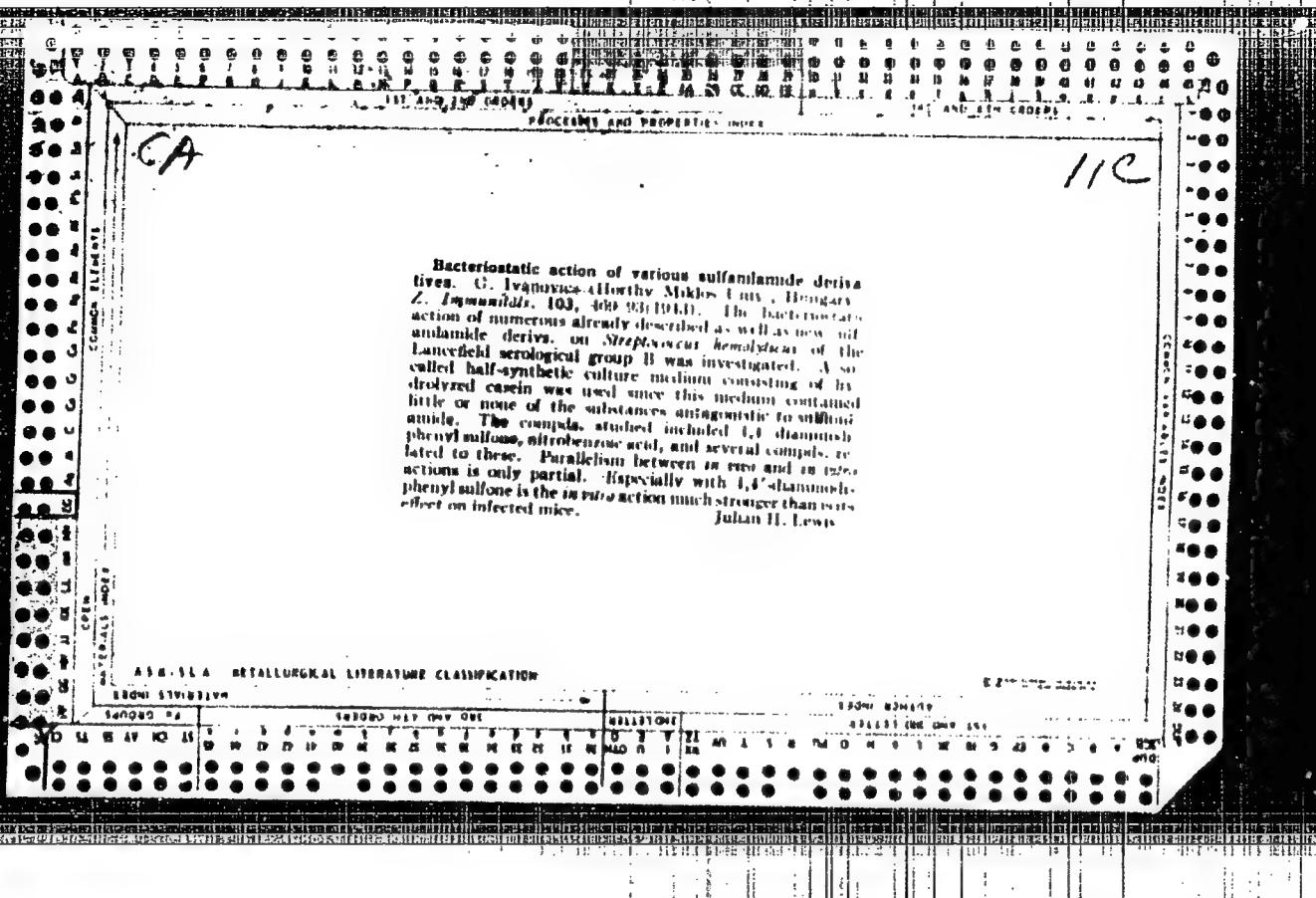
SELECTED WITH ONE GATE

*Ca**10*

Soluble derivatives of sulfanilamide. Gyorgy Ivánovics (Univ. Szeged, Hungary). Magyar Bio. Katal. (Budapest) 15, 462-4 (1943).— β -Alanine (2 g.) with β -AcNH₂CF₃SO₂Cl (I) gave crystals of β -(N-acetyl)sulfanilamido)propanoic acid (IIa). The crystals obtained by refluxing Ia in dil. HCl and cooling were dissolved in 10% NaOH and as much 10% HCl added as necessary to give 1.0 g. cryst. β -sulfanilamido propanoic acid (II), with 1 mol. H₂O, m. 117°. Taurine in 10% NaOH was boiled 15 min. with I, giving crystals of 2-(decomp.). To β -aminosalicylic acid-HCl (III), m. 290° I was added according to a detailed procedure to give crystals of 4'-hydroxy-3'-carboxysulfanilanilide (IV), m. 265° (decomp.). II, III, and IV have definite therapeutic effects. II crystallizes from 25% alc. with 1 mol. H₂O and is partially sol. in water, easily sol. in dil. NaOH; III crystallizes from concd. HCl in colorless needles and dissolves easily in water; IV crystallizes from 30% alc. in colorless needles and dissolves easily in dil. NaOH.

Latvia Pinkly

ABRILIA METALLURGICAL LITERATURE CLASSIFICATION



Bacteriostatic action of various sulfonamide derivatives. G. Ivánovics-Allothy Miklós László, Hungary. *Z. Immunol.*, 103, 469-93 (1943). The bacteriostatic action of numerous already described as well as new sulfonamide derivs. on *Streptococcus hemolyticus* of the Lancefield serological group II was investigated. A so called half-synthetic culture medium consisting of hydrolyzed casein was used since this medium contained little or none of the substances antagonistic to sulfonamide. The compds. studied included 1,1-diamino-phenyl sulfone, nitrobenzoic acid, and several compds. related to these. Parallelism between *in vitro* and *in vivo* actions is only partial. Especially with 1,1-diaminophenyl sulfone is the *in vivo* action much stronger than its effect on infected mice.

Julian H. Lewis

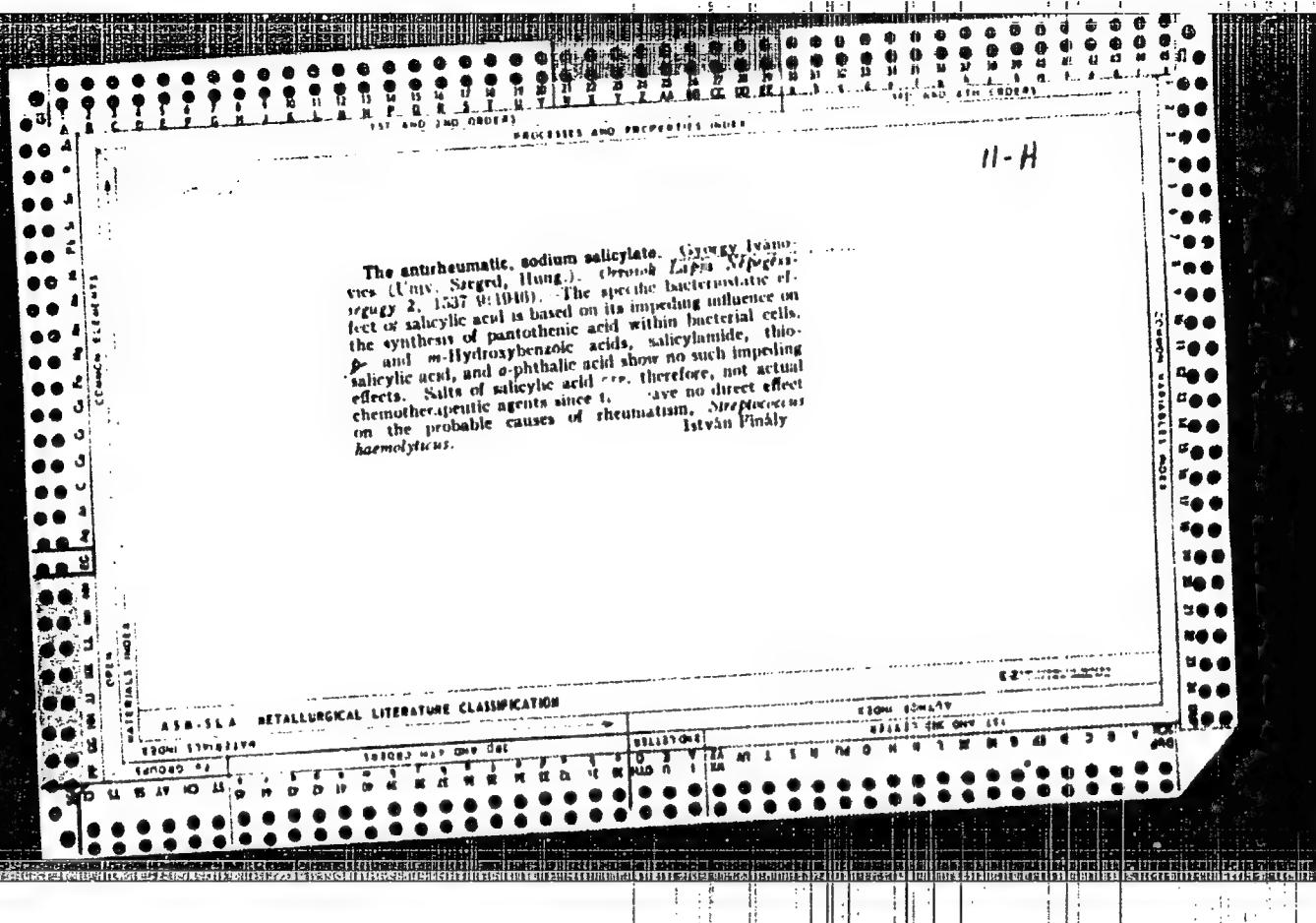
The biological significance of synthesis of sulfonic acid analogs of pimelic acid. G. Ivánkovich and L. Varga (Műegyetem Univ. Siegen, Hungary). Z. physiol. Chem., 281, 150-62 (1941).—Expts. to det. the function of pimelic acid (I) in growth of certain bacteria by employing sulfonic acid analogs of I as competitive inhibitors are described. 1,5-Pentanedisulfonic acid, 1,5-pentanetrifluoromide, α -sulfoacrylic acid (III), and α -sulfonylacrylic acid (IV) were tested and found to be inactive as inhibitors. The synthesis of III and IV is described: 9 g. α -bromocaprylic acid (IV) refluxed with 8 g. KHS and 80 cc. H_2O 2 hrs., cooling, addn. of H_2SO_4 , and extn. with ether give 80% α -mercaptoacrylic acid (V), b.p. 155-7°. Satn. with Cl at 7 g. V in 70 cc. glacial AcOH at 15°, standing 3 hrs., removal of the AcOH in *vacuo*, and crystn. from petr. ether gives 80% (chlorosulfonyl)caprylic acid (VI), m. 58°. VI refluxed with H_2O 2 hrs. and dried gives II as an oil which is converted to the di-Na salt, insol. in EtOH. VI added slowly to ice-cold concd. NH_4OH , drying, and crystn. from acetone- $CHCl_3$ gives 85% III, m. 105°. Na salt of III, sparingly sol. in 90% EtOH, does not m. 205°. Cl satn. of V or water sus-

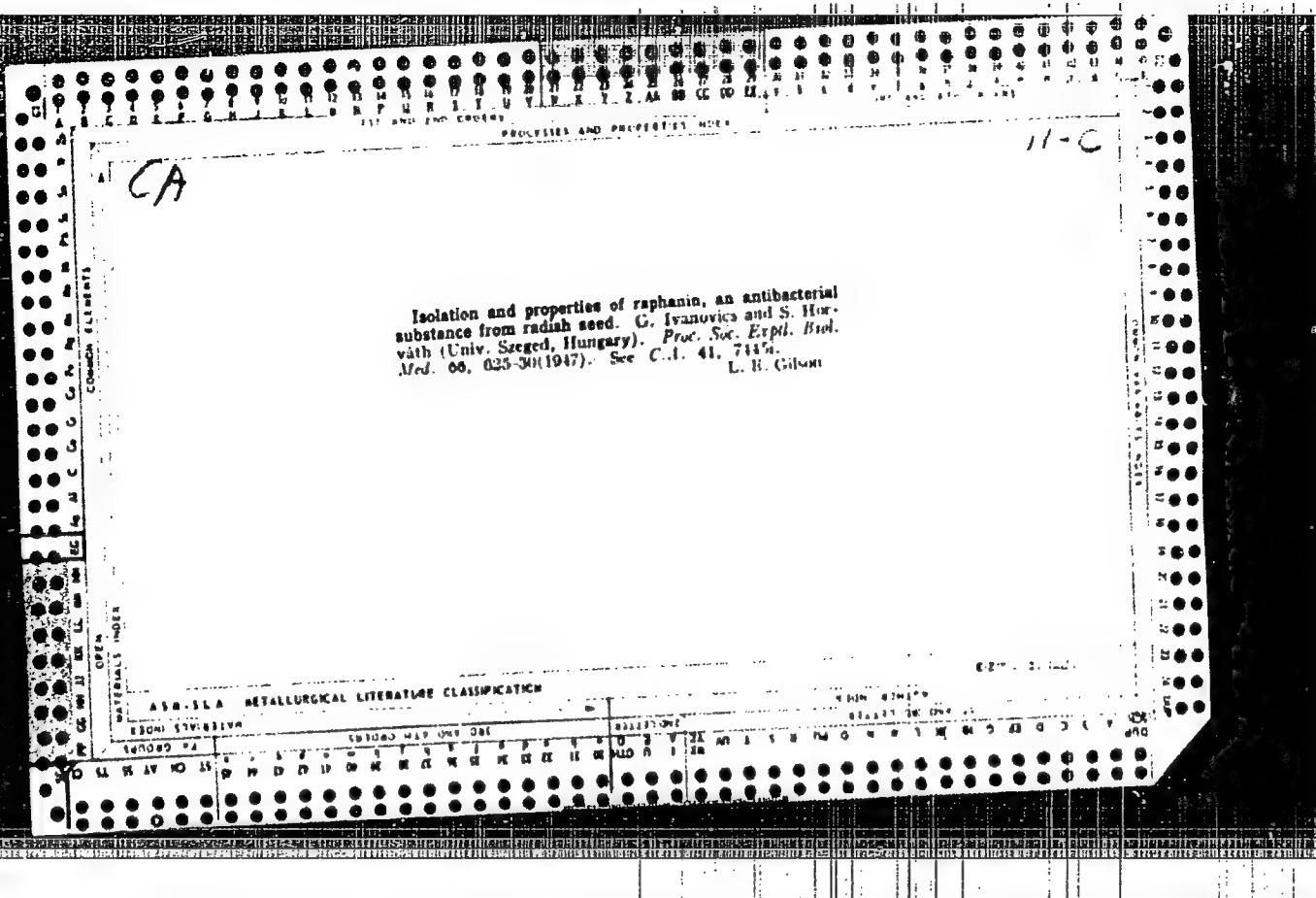
sension of V, filtration of the product, and recrystn. from hot H_2O gives 75% $[SCH_2(CH_3)COH]_2$, m. p. 105°. Equimol. amts. of IV and $CS(NH_2)_2$ heated 3 hrs. in $AmOH$ at 140-151°, cooling, distn. of the solvent, soln. of the residue in H_2O , neutralization with $NaOH$, soln. of the filtered ppt. in dil. HCl , drying, and crypt. from $EtOH$ -ether give 65% α -keto- β -carboxylic acid- HCl , m. p. 106°. Addn. of VI to cooled an. $Mg(NH_2)_2$, addn. of HCl , concn., and recrystn. from benzene give α -dimethyl- β -vinylsuccinic acid, m. p. 94°. 1,5-Pentanedisulfonyl chloride treated with $Mg(NH_2)_2$ as above gives N,N,N',N' -tetramethyl-1,5-pentanedisulfonamide, m. p. 81°. The bacterial expts. are described by Karl F. Urbach.

Karl F. Urbach

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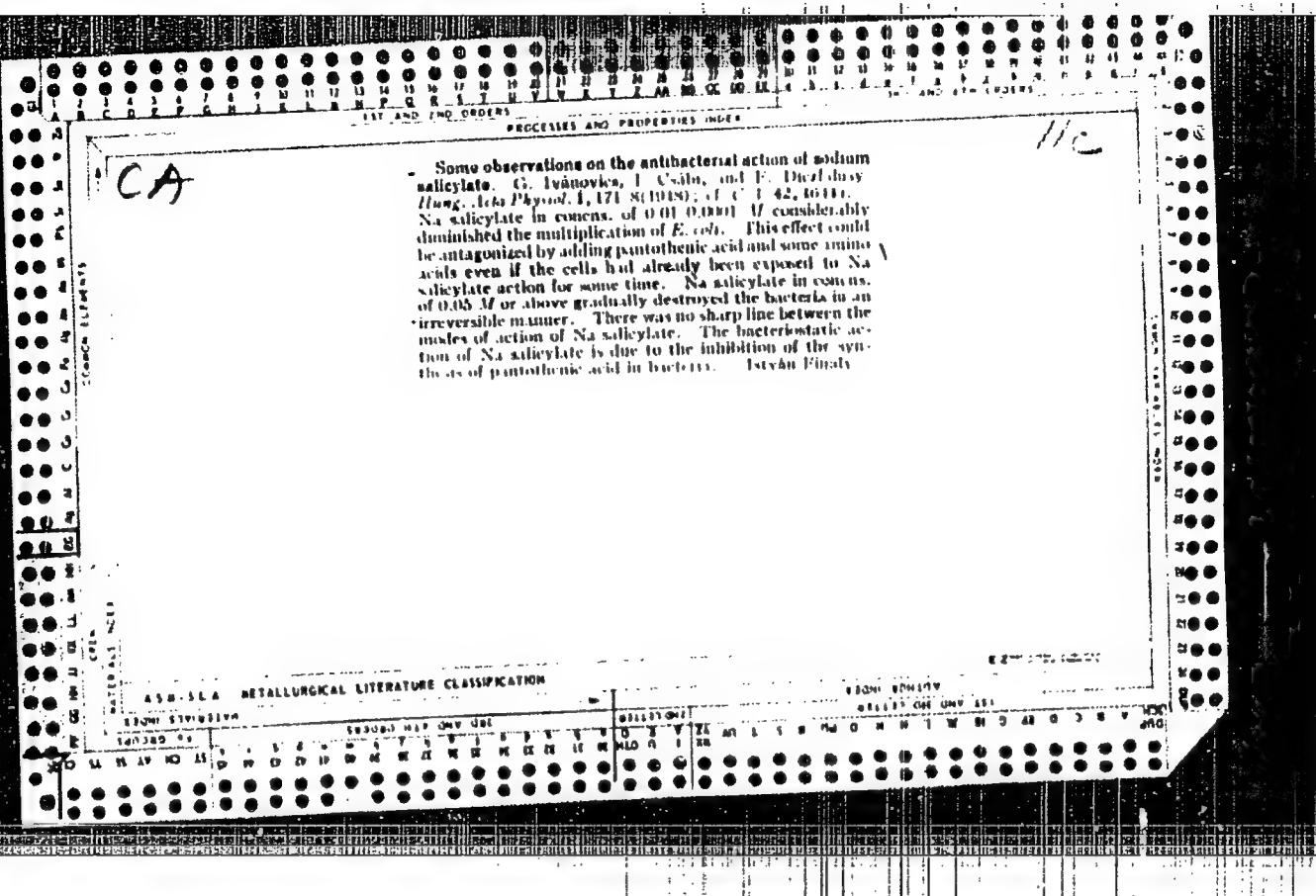
CA

11C

Raphanin, an antibacterial principle of the radish (Geo, Ivánovics and Stephan Horváth (Univ. Szeged, Hungary). Nature 160, 207-8(1917). Aq. ext. of radish seeds, when added to plated contg. *Staphylococcus* and *Esch. coli*, gave a very marked zone of inhibition in both cases, while ext. of radish roots and leaves did not affect the growth of the bacteria. This antibacterial principle was isolated as a liquid from the aq. ext. of radish seeds

and named raphanin. It is heat-resistant; b. p. 135°; yield is 3 g. per kg. of seeds. It is freely sol. in water, ethanol, butanol, butyl acetate, amyl acetate, and HCOH; moderately sol. in ether, and slightly sol. in petr. ether. Formula: $C_{11}H_{14}N_2O_8S$ and $C_{11}H_{14}N_2O_8S_2$. It is neutral; $[\alpha]_D^{25} -141^\circ$; it is stable between pH 3 and 8. It was crystd. by shaking with O. N baryta and neutralizing with H₂SO₄; recrystd. from ethanol and then from water. This cryst. substance had m.p. 102-3° at decompr.; formula $C_{11}H_{14}N_2O_8S$. A 1 mg. per ml. soln. of raphanin gave a zone of inhibition with various bacteria. Raphanin is highly active in preventing the germination of various plant seeds and in hindering the growth of tissue culture from rabbit testicle. It is moderately toxic to mice and to isolated frog heart. Dorothy A. Meyer

ASPLA METALLURGICAL LITERATURE CLASSIFICATION



CA

The specificity of the antibacterial action of sodium salicylate. G. Ivánovics (Univ., Szeged, Hungary). Schloss, Z. *Pak. u. Biol.* 11, 54-8(1948)(in German); cf. *C.A.* 38, 3307v. A reply to Markers (*C.A.* 40, 7376). The antagonism of Na salicylate toward pantothenic acid is analogous to the effect of sulphonamides on $p\text{-NH}_2\text{C}_6\text{H}_4\text{CO}_2$. H. K. Livingston.

ASIN-ELA METALLURGICAL LITERATURE CLASSIFICATION

CM

The antibacterial substance of radish seeds. István Kocíka and György Ivánovics. *Acta Univ. Szeged. Chem. et Phys.*, 4, 203-8 (1949) (in German).—Raphanine described in an earlier paper (C.A. 41, 7445i) seems to be identical to "sulforaphen" mentioned lately by Schmid and I. Finály (C.A. 42, 7240g).

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Abst: Exc. Med. IV, Vol. 11, No. 11, p. 1105

CA

The effect of *p*-aminosalicylic acid on tubercle bacilli. Gyorgy Ivánovics, Orvosi Hetilap 90, 299-302 (1949); cf. C.A. 43, 5070c. The tuberculostatic effect of *p*-aminosalicylic acid (I) in Dubos culture medium seemed to be nearly equal to that of streptomycin. The effect of its deriv. and similar compds. was much lower. One mol. I counteracted the effect of 3-4 mols. *p*-aminobenzoic acid. Sodium salicylate (II) in $1/100$ M concn. impeded the tuberculostatic effect of I although both agents alone were actively tuberculostatic. Pantothenic acid did not influence the slight tuberculostatic effect of II. The sensitivity of streptomycin resistant tubercle bacteria, was also unchanged towards I
István Fájly
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93 no.51:1452-1455 21 Dec 1952. (CLML 24:2)

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Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Biological Chemistry

Chemical structure of the capsule of *Bacillus anthracis* and *Bacillus megatherium*. L. O. Tránovalcs and L. Horváth (Med. Univ., Szeged). *Acta Physiol. Acad. Sci. Hung.* 4, 401-8 (1953) (in English); cf. C.A. 47, 8819c.—The —COOH groups of the D-glutamic acid polypeptide which forms the capsule of *B. anthracis* and *B. megatherium* are not free if one judges by the staining reactions of the capsular material.
M. G. Horowitz